e EPODOC / EPO

PN - JP10199455 A 19980731

PD - 1998-07-31

-PR - JP19970003072 19970110

OPD - 1997-01-10

TI - IMAGE DISPLAY DEVICE

IN - MITSUTAKE HIDEAKI; YAMAZAKI KOJI

PA - CANON KK

IC - H01J31/12; H01J29/04; H01J29/86

O WPI/DERWENT

- Image forming apparatus with electron beam source - includes spacer which is arranged between substrate and face plate, such that its centre is deviated from electron emitting element which is connected to scanning signal wiring

PR - JP19970003072 19970110

PN - JP3466848B2 B2 20031117 DW200382 H01J31/12 022pp

- JP10199455 A 19980731 DW199841 H01J31/12 021pp

PA - (CANO) CANON KK

IC - H01J29/04 ;H01J29/86 ;H01J29/87 ;H01J31/12

- J10199455 The apparatus includes a substrate on which an electron emitting element is provided. Voltage is applied to the electron emitting element through a scanning signal wiring (13). A face plate with an acceleration electrode is arranged opposing the substrate, to accelerate an electron beam.

- A spacer (20) is arranged between the substrate and the face plate, on the scanning signal wiring. The centre of the spacer is deviated from the electron emitting element which is connected to the scanning signal wiring.

- ADVANTAGE - Prevents reduction in brightness and obtains clear image display.

- (Dwg.1/22)

OPD - 1997-01-10

AN - 1998-472727 [41]

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PN - JP10199455 A 19980731

PD - 1998-07-31

AP - JP19970003072 19970110

IN - YAMAZAKI KOJI; MITSUTAKE HIDEAKI

PA - CANON INC

TI - IMAGE DISPLAY DEVICE

- PROBLEM TO BE SOLVED: To prevent the shutting off of emitted electrons caused by a supporting member and prevent a drop in brightness of a phosphor in the vicinity of the supporting member between a substrate and a face plate, and shifting the center of the supporting member arranged in a wiring for scanning signal from the center of the wiring for scanning signal.

- SOLUTION: Electron beams 112-1, 112-2 are emitted from electron emitting elements 111-1, 111-2 formed on a substrate 11, and an image is formed on a phosphor 18. During operation of a wiring 13-1 for scanning signal for driving the electron emitting element 111-1, the other wiring acts as a wiring 13-2 for scanning signal, and to drive an electron emitting element 111-1, one wiring shifted to the right side of the wiring 13-2 for scanning signal acts as the wiring 13-1 for scanning signal. A spacer 20 is arranged in the position shifted from the center of a wiring 13-0 for scanning signal in the direction where electron beams 112-1 and 112-2 are inclined, and brought into contact with the wiring 13-0 for scanning signal, and thereby, the electron beams 112-1 do not collide against the spacer 20 and reach the phosphor 18.

- H01J31/12 ;H01J29/04 ;H01J29/86

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